CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/NVR/W.No.07/CSR-04/317z/CEMENT/2017-18 Date: 12.04.2017

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. N. Venkata Reddy** #92, 7th main road 4th cross, J C nagara, Mahalaxmipuram(P) Bangalore- 560 086.
*** Name of Work**	:	Construction of new culverts in coffee board layout, pampa extension, kempapura and surrounding area in Ward No.07, BBMP, Bangalore.
*** Reference**	:	AEE/KODIGEHALLI/QC/PR/207/2017-18 Dated: 10.04.2017
*** Sample ID**	:	Cement
Sample Received on	:	10.04.2017
Period of Testing	:	10.04.2017 to 12.04.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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Job No.: CTCE/BBMP/NVR/W.No.07/CSR-04/317z/SAND-Gradation/2017-18 12.04.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. N. Venkata Reddy** #92, 7th main road 4th cross, J C nagara, Mahalaxmipuram(P) Bangalore- 560 086.
*** Name of Work**	:	Construction of new culverts in coffee board layout, pampa extension, kempapura and surrounding area in Ward No.07, BBMP, Bangalore.
*** Reference**	:	AEE/KODIGEHALLI/QC/PR/207/2017-18 Dated: 10.04.2017
*** Sample ID**	:	Fine Aggregates
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	10.04.2017
Date of Testing	:	12.04.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.50	90-100	90-100	90-100	95-100
2.36	71.70	60-95	75-100	85-100	95-100
1.18	49.30	30-70	55-90	75-100	90-100
600 Micron	25.00	15-34	35-59	60-79	80-100
300 Micron	13.00	5-20	8-30	12-40	15-50
150 Micron	6.00	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/NVR/W.No.07/CSR-04/317z/AGG/GR/2017-18 12.04.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy** #92, 7th main road 4th cross, J C nagara, Mahalaxmipuram(P) Bangalore- 560 086.
* Name of Work	:	Construction of new culverts in coffee board layout, pampa extension, kempapura and surrounding area in Ward No.07, BBMP, Bangalore.
* Reference	:	AEE/KODIGEHALLI/QC/PR/207/2017-18 Dated: 10.04.2017
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	10.04.2017
Date of Testing	:	12.04.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.08	95-100	85-100
20	38.24	30-70	0-20
10	13.56	10-35	0-5
4.75	4.50	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. N. Venkata Reddy** #92, 7th main road 4th cross, J C nagara, Mahalaxmipuram(P) Bangalore- 560 086.
*** Name of Work**	:	Construction of new culverts in coffee board layout, pampa extension, kempapura and surrounding area in Ward No.07, BBMP, Bangalore.
*** Reference**	:	AEE/KODIGEHALLI/QC/PR/207/2017-18 Dated: 10.04.2017
*** Sample ID**	:	Coarse Aggregates (20mm)
Technical Reference	:	IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	:	10.04.2017
Date of Testing	:	12.04.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	97.04	95-100	85-100
10	32.10	25-55	0-20
4.75	6.90	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/NVR/W.No.07/CSR-04/317z/Cube/2017-18 25.05.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy** #92, 7th main road 4th cross, J C nagara, Mahalaxmipuram(P) Bangalore- 560 086.
* Name of the work	:	Construction of new culverts in coffee board layout, pampa extension, kempapura and surrounding area in Ward No.07, BBMP, Bangalore.
* Reference	:	AEE/KODIGEHALLI/QC/PR/207/2017-18 Dated: 10.04.2017
* Sample ID	:	Coping Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	25.05.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.04.2017	25.05.2017	8.125	386.5	17.18
2	27.04.2017	25.05.2017	8.248	364.8	16.21
3	27.04.2017	25.05.2017	8.363	378.2	16.81

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/NVR/W.No.07/CSR-04/317z/Cube/2017-18 25.05.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy** #92, 7th main road 4th cross, J C nagara, Mahalaxmipuram(P) Bangalore- 560 086.
* Name of the work	:	Construction of new culverts in coffee board layout, pampa extension, kempapura and surrounding area in Ward No.07, BBMP, Bangalore.
* Reference	:	AEE/KODIGEHALLI/QC/PR/207/2017-18 Dated: 10.04.2017
* Sample ID	:	Coping Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	25.05.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.04.2017	25.05.2017	8.245	375.6	16.69
2	27.04.2017	25.05.2017	8.320	396.2	17.61
3	27.04.2017	25.05.2017	8.455	380.8	16.92

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy** #92, 7th main road 4th cross, J C nagara, Mahalaxmipuram(P) Bangalore- 560 086.
* Name of the work	:	Construction of new culverts in coffee board layout, pampa extension, kempapura and surrounding area in Ward No.07, BBMP, Bangalore.
* Reference	:	AEE/KODIGEHALLI/QC/PR/207/2017-18 Dated: 10.04.2017
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	30.05.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2017	30.05.2017	8.173	395.4	17.57
2	02.05.2017	30.05.2017	8.245	400.6	17.80
3	02.05.2017	30.05.2017	8.320	409.2	18.19

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy** #92, 7th main road 4th cross, J C nagara, Mahalaxmipuram(P) Bangalore- 560 086.
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* Reference	:	AEE/KODIGEHALLI/QC/PR/207/2017-18 Dated: 10.04.2017
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	30.05.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2017	30.05.2017	8.229	386.4	17.17
2	02.05.2017	30.05.2017	8.317	405.6	18.03
3	02.05.2017	30.05.2017	8.463	395.1	17.56

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Job No.: CTCE/BBMP/NVR/W.No.07/CSR-04/317z/Pre Slab/2017-18 05.05.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. N. Venkata Reddy** #92, 7th main road 4th cross, J C nagara, Mahalaxmipuram(P) Bangalore- 560 086.
* Name of work	:	Construction of new culverts in coffee board layout, pampa extension, kempapura and surrounding area in Ward No.07, BBMP, Bangalore.
* Reference	:	AEE/KODIGEHALLI/QC/PR/207/2017-18 Dated: 10.04.2017
* Sample ID	:	Precast Slab (200mm thick)
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	01.05.2017
Date of Testing	:	05.05.2017

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.400	2578.71	1.58	0.955	30.54	15.55	16.80	17.60	22.00
2	50.00	81.00	0.405	2546.48	1.62	0.959	35.19	17.92	19.36	18.56	23.20
3	50.00	82.00	0.411	2552.69	1.64	0.961	34.16	17.40	18.79	18.06	22.57

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